

METHOD AND APPARATUS TO DETECT AND REMOVE AUDIO DISTURBANCES

ABSTRACT OF THE DISCLOSURE

5

A method for reducing noise disturbance associated with an audio signal received through a microphone is provided. The method initiates with magnifying a noise disturbance of the audio signal relative to a remaining component of the audio
10 signal. Then, a sampling rate of the audio signal is decreased. Next, an even order derivative is applied to the audio signal having the decreased sampling rate to define a detection signal. Then, the noise disturbance of the audio signal is adjusted according to a statistical average of the detection signal. A system capable of canceling disturbances associated with an audio signal, a video game controller, and an integrated circuit for
15 reducing noise disturbances associated with an audio signal are included.